



PCT10

RAW SEQUENCE LISTING

DATE: 02/21/2003

PATENT APPLICATION: US/10/089,503A

TIME: 10:00:55

Input Set : N:\Crf4\01302003\J089503.raw

Output Set: N:\CRF4\02212003\J089503A.raw

1 <110> APPLICANT: Universitätsklinikum Freiburg
 2 <120> TITLE OF INVENTION: THE PRV-1 GENE AND USE THEREOF
 3 <130> FILE REFERENCE: E980930
 4 <140> CURRENT APPLICATION NUMBER: US/10/089,503A
 5 <141> CURRENT FILING DATE: 2002-09-20
 6 <150> PRIOR APPLICATION NUMBER: DE 199 47 010.3
 7 <151> PRIOR FILING DATE: 1999-09-30
 8 <160> NUMBER OF SEQ ID NOS: 10
 9 <170> SOFTWARE: PADAT Sequenzmodul, Version 1.0
 11 <210> SEQ ID NO: 1
 12 <211> LENGTH: 1600
 13 <212> TYPE: DNA
 14 <213> ORGANISM: homo sapiens
 15 <220> FEATURE:
 16 <223> OTHER INFORMATION:

ENTERED

W--> 17 <400> 1

18	aaaagcagaa	agagattacc	agccacagac	gggtcatgag	cgcggtatta	ctgctggccc	60
19	tctctgggtt	catcctccca	ctgccaggag	tgcaggcgct	gctctgccag	tttgggacag	120
20	ttcagcatgt	gtggaagggt	tccgacctgc	cccggcaatg	gacccctaag	aacaccagct	180
21	gcgacagcgg	cttgggggtgc	caggacacgt	tgatgctcat	tgagagcgga	ccccaagtga	240
22	gcctggtgct	ctccaagggc	tgacaggagg	ccaaggacca	ggagccccgc	gtcactgagc	300
23	accggatggg	ccccggcctc	tccctgatct	cctacacctt	cgtgtgccgc	caggaggact	360
24	tctgcaacaa	cctcgtaaac	tccctccgcg	tttgggcccc	acagccccc	gcagaccag	420
25	gacctctgag	gtgcccagtc	tgcttgctta	tggaaggctg	tctggagggg	acaacagaag	480
26	agatctgccc	caaggggacc	acacactggt	atgatggcct	cctcaggctc	aggggaggag	540
27	gcactctctc	caatctgaga	gtccagggat	gcatgcccc	gccaggttgc	aacctgctca	600
28	atgggacaca	ggaaattggg	cccgtgggta	tgactgagaa	ctgcaatagg	aaagattttc	660
29	tgacctgtca	tcgggggacc	accattatga	cacacggaaa	cttgggtcaa	gaaccactg	720
30	attggaccac	atcgaatacc	gagatgtgcg	aggtggggca	ggtgtgtcag	gagacgctgc	780
31	tgctcataga	tgtaggactc	acatcaaccc	tggtggggac	aaaaggctgc	agcactgttg	840
32	gggctcaaaa	ttcccagaag	accaccatcc	actcagcccc	tctctgggtg	cttgtggcct	900
33	cctataccca	cttctgctcc	tccgacctgt	gcaatagtgc	cagcagcagc	agcgttctgc	960
34	tgaactccct	ccctctctca	gctgcccctg	tcccaggaga	ccggcagtgt	cctacctgtg	1020
35	tgcagcccct	tggaacctgt	tcaagtggct	ccccccgaat	gacctgcccc	aggggagcca	1080
36	ctcattgtta	tgatgggtac	attcatctct	caggaggtgg	gctgtccacc	aaaatgagca	1140
37	ttcagggtgt	cgtggcccaa	ccttcagct	tcttggtgaa	ccacaccaga	caaatcgga	1200
38	tcttctctgc	gcgtgagaag	cgtgatgtgc	agcctcctgc	ctctcagcat	gagggagggtg	1260
39	gggctgaggg	cctggagtct	ctcacttggt	gggtggggct	ggcactggcc	ccagcgctgt	1320
40	ggtggggagt	ggtttgcctt	tctgtctaac	tctattaccc	ccacgattct	tcaccgctgc	1380
41	tgaccaccca	cactcaacct	ccctctgacc	tcataaccta	atggccttgg	acaccagatt	1440
42	ctttccatt	ctgtccatga	atcatcttcc	ccacacacaa	tcattcatat	ctactcacct	1500
43	aacagcaaca	ctggggagag	cctggagcat	ccggacttgc	cctatgggag	aggggacgct	1560
44	ggaggagtgg	ctgcatgtat	ctgataatac	agacctgtgc			1600

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46 <210> SEQ ID NO: 2
47 <211> LENGTH: 437
48 <212> TYPE: PRT
49 <213> ORGANISM: homo sapiens
50 <400> SEQUENCE: 2
51   Met Ser Ala Val Leu Leu Leu Ala Leu Leu Gly Phe Ile Leu Pro Leu
52       1           5           10           15
53   Pro Gly Val Gln Ala Leu Leu Cys Gln Phe Gly Thr Val Gln His Val
54           20           25           30
55   Trp Lys Val Ser Asp Leu Pro Arg Gln Trp Thr Pro Lys Asn Thr Ser
56           35           40           45
57   Cys Asp Ser Gly Leu Gly Cys Gln Asp Thr Leu Met Leu Ile Glu Ser
58           50           55           60
59   Gly Pro Gln Val Ser Leu Val Leu Ser Lys Gly Cys Thr Glu Ala Lys
60           65           70           75           80
61   Asp Gln Glu Pro Arg Val Thr Glu His Arg Met Gly Pro Gly Leu Ser
62           85           90           95
63   Leu Ile Ser Tyr Thr Phe Val Cys Arg Gln Glu Asp Phe Cys Asn Asn
64           100          105          110
65   Leu Val Asn Ser Leu Pro Leu Trp Ala Pro Gln Pro Pro Ala Asp Pro
66           115          120          125
67   Gly Ser Leu Arg Cys Pro Val Cys Leu Ser Met Glu Gly Cys Leu Glu
68           130          135          140
69   Gly Thr Thr Glu Glu Ile Cys Pro Lys Gly Thr Thr His Cys Tyr Asp
70           145          150          155          160
71   Gly Leu Leu Arg Leu Arg Gly Gly Gly Ile Phe Ser Asn Leu Arg Val
72           165          170          175
73   Gln Gly Cys Met Pro Gln Pro Gly Cys Asn Leu Leu Asn Gly Thr Gln
74           180          185          190
75   Glu Ile Gly Pro Val Gly Met Thr Glu Asn Cys Asn Arg Lys Asp Phe
76           195          200          205
77   Leu Thr Cys His Arg Gly Thr Thr Ile Met Thr His Gly Asn Leu Ala
78           210          215          220
79   Gln Glu Pro Thr Asp Trp Thr Thr Ser Asn Thr Glu Met Cys Glu Val
80           225          230          235          240
81   Gly Gln Val Cys Gln Glu Thr Leu Leu Leu Ile Asp Val Gly Leu Thr
82           245          250          255
83   Ser Thr Leu Val Gly Thr Lys Gly Cys Ser Thr Val Gly Ala Gln Asn
84           260          265          270
85   Ser Gln Lys Thr Thr Ile His Ser Ala Pro Pro Gly Val Leu Val Ala
86           275          280          285
87   Ser Tyr Thr His Phe Cys Ser Ser Asp Leu Cys Asn Ser Ala Ser Ser
88           290          295          300
89   Ser Ser Val Leu Leu Asn Ser Leu Pro Pro Gln Ala Ala Pro Val Pro
90           305          310          315          320
91   Gly Asp Arg Gln Cys Pro Thr Cys Val Gln Pro Leu Gly Thr Cys Ser
92           325          330          335
93   Ser Gly Ser Pro Arg Met Thr Cys Pro Arg Gly Ala Thr His Cys Tyr
94           340          345          350

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95   Asp Gly Tyr Ile His Leu Ser Gly Gly Gly Leu Ser Thr Lys Met Ser
96           355                      360                      365
97   Ile Gln Gly Cys Val Ala Gln Pro Ser Ser Phe Leu Leu Asn His Thr
98           370                      375                      380
99   Arg Gln Ile Gly Ile Phe Ser Ala Arg Glu Lys Arg Asp Val Gln Pro
100          385                      390                      395                      400
101   Pro Ala Ser Gln His Glu Gly Gly Gly Ala Glu Gly Leu Glu Ser Leu
102           405                      410                      415
103   Thr Trp Gly Val Gly Leu Ala Leu Ala Pro Ala Leu Trp Trp Gly Val
104           420                      425                      430
105   Val Cys Pro Ser Cys
106           435
108 <210> SEQ ID NO: 3
109 <211> LENGTH: 24
110 <212> TYPE: RNA
111 <213> ORGANISM: Artificial Sequence
112 <220> FEATURE:
113 <223> OTHER INFORMATION: 5'-end of PRV-1-sequence
114 <400> SEQUENCE: 3
115   aaaagcagaa agagauuacc agcc                                     24
117 <210> SEQ ID NO: 4
118 <211> LENGTH: 24
119 <212> TYPE: RNA
120 <213> ORGANISM: Artificial Sequence
121 <220> FEATURE:
122 <223> OTHER INFORMATION: Antisense-Molecule
123 <400> SEQUENCE: 4
124   ggcugguaau cucuuucugc uuuu                                     24
126 <210> SEQ ID NO: 5
127 <211> LENGTH: 13
128 <212> TYPE: PRT
129 <213> ORGANISM: Artificial Sequence
130 <220> FEATURE:
131 <223> OTHER INFORMATION: amino acids 34-46 of PRV-1
132 <400> SEQUENCE: 5
133   Lys Val Ser Asp Leu Pro Arg Gln Trp Thr Pro Lys Asn
134       1                      5                      10
136 <210> SEQ ID NO: 6
137 <211> LENGTH: 15
138 <212> TYPE: PRT
139 <213> ORGANISM: Artificial Sequence
140 <220> FEATURE:
141 <223> OTHER INFORMATION: amino acids 391-405 of PRV-1
142 <400> SEQUENCE: 6
143   Ser Ala Arg Glu Lys Arg Asp Val Gln Pro Pro Ala Ser Gln His
144       1                      5                      10                      15
146 <210> SEQ ID NO: 7
147 <211> LENGTH: 27
148 <212> TYPE: DNA

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149 <213> ORGANISM: Artificial Sequence
150 <220> FEATURE:
151 <223> OTHER INFORMATION: RT-Primer
152 <400> SEQUENCE: 7
153 attaggttat gaggtcagag ggaggtt 27
155 <210> SEQ ID NO: 8
156 <211> LENGTH: 28
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: sense-Primer
161 <400> SEQUENCE: 8
162 gcagaaagag attaccagcc acagacgg 28
164 <210> SEQ ID NO: 9
165 <211> LENGTH: 28
166 <212> TYPE: DNA
167 <213> ORGANISM: Artificial Sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: antisense-Primer
170 <400> SEQUENCE: 9
171 gaatcgtggg ggtaatagag ttagcagg 28
173 <210> SEQ ID NO: 10
174 <211> LENGTH: 29
175 <212> TYPE: DNA
176 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: probe
179 <400> SEQUENCE: 10
180 ttcttgttga accacaccag acaaatcgg 29

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/089,503A

DATE: 02/21/2003
TIME: 10:00:56

Input Set : N:\Crf4\01302003\J089503.raw
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Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37

Seq#:1; Line(s) 38,39,40,41,42,43,44

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/089,503A

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TIME: 10:00:56

Input Set : N:\Crf4\01302003\J089503.raw

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L:17. M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:0